Pullbacks of bundles are Pullback squares:

pull back bundle:

$$\begin{tikzcd}
\sum_{c \in B_2} f \circ s(c) \arrow[r, "\lambda"] \arrow[d, "p_2"'] & \sum_{b \in B_1} f(b) \arrow[d, "p_1"] & \\
B_2 \arrow[r, "s"'] & B_1 \arrow[r, "f"] & U_F
\end{tikzcd}$$

$\overset{\text{in } B_2}{c}$, $\overset{\text{in } U_F}{\mathcal{F}}$

$\lambda(c, \mathcal{F}) = (s(c), \mathcal{F})$

$p_1(b, \mathcal{F}) = b$

$p_2(c, \mathcal{F}) = c$

to show the square is a pull back square, we need to show

$$\begin{tikzcd}
\sum_{c \in B_2} f \circ s(c) \arrow[r, bend right, "g"'] & \sum_{x \in \sum_{b \in B_1} f(b)} \sum_{c \in B_2} (s(c) = p_1(x)) \arrow[l, bend left, "h"]
\end{tikzcd}$$

define g by $g(c, \mathcal{F}) := ((s(c), \mathcal{F}), c, \text{refl}_{s(c)})$ — b/c $p_1(s(c), \mathcal{F}) = s(c)$

define h by $h((b, \overset{\text{in } f(b)}{\mathcal{F}}), c, r) := (c, \mathcal{F})$

r in $(s(c) = p_1(b, \mathcal{F}))$
$\qquad\qquad \shortparallel$
$\qquad (s(c) = b)$

$\mathcal{F}$ in $f(b)$, but r is a witness that $(s(c) = b)$ so $\mathcal{F}$ is in $f \circ s(c)$ as desired.

$g \circ h((b, \mathcal{F}), c, r) = g(c, \mathcal{F}) = ((s(c), \mathcal{F}), c, \text{refl}_{s(c)})$

but $(b = s(c))$ is inhabited by r.

and $(r = \text{refl}_{s(c)})$ must be inhabited b/c there is no higher homotopy (since these are real cohesive types).