From Section 1.2.2 we know that the golden ratio φ is defined as $\varphi^2 = \varphi + 1$.

Let x be φ, rewrite as $x^2 = x + 1$ and divide both sides by x to get $x = 1 + \frac{1}{x}$.

Let $f(x) = 1 + \frac{1}{x}$, which means $f(x) = x$, thus x is a fixed point of the function f.

Therefore, the golden ratio φ is a fixed point of the transformation $x \mapsto 1 + \frac{1}{x}$.