$$\begin{array}{c}
\mathbf{U}_{f} \times (\mathbf{X}_{f} * \mathbf{X}_{g} * \mathbf{X}_{h}) & \xrightarrow{\operatorname{dyn}_{f_{\S}(g\S h)}} & (\mathbf{X}_{f} * \mathbf{X}_{g} * \mathbf{X}_{h}) \\
\operatorname{id}_{\mathbf{U}_{f}} \times \operatorname{coh}_{f_{\S}(g\S h)} & \xrightarrow{\operatorname{dyn}'_{f_{\S}(g\S h)}} & (\mathbf{X}_{f}) \times (\mathbf{X}_{g} * \mathbf{X}_{h}) \\
\mathbf{U}_{f} \times ((\mathbf{X}_{f}) \times (\mathbf{X}_{g} * \mathbf{X}_{h})) & \xrightarrow{\operatorname{dyn}'_{f_{\S}(g\S h)}} & (\mathbf{X}_{f}) \times (\mathbf{X}_{g} * \mathbf{X}_{h}) \\
\operatorname{id}_{\mathbf{U}_{f}} \times (\operatorname{id}_{(\mathbf{X}_{f})} \times \operatorname{coh}_{g\S h}) & \xrightarrow{\operatorname{dyn}'_{f_{\S}(g\S h)}} & (\mathbf{X}_{f}) \times ((\mathbf{X}_{g}) \times \operatorname{coh}_{g\S h}) \\
\mathbf{U}_{f} \times ((\mathbf{X}_{f}) \times ((\mathbf{X}_{g}) \times (\mathbf{X}_{h}))) & \xrightarrow{\operatorname{dyn}'_{f_{\S}(g\S h)}} & (\mathbf{X}_{f}) \times ((\mathbf{X}_{g}) \times (\mathbf{X}_{h}))
\end{array}$$