$$\begin{array}{ccc}
\mathrm{Hom}_{\mathbf{C}}(X;Y) \otimes (\mathrm{Hom}_{\mathbf{C}}(Y;Z) \otimes \mathrm{Hom}_{\mathbf{C}}(Z;U)) & \xrightarrow{\mathrm{as}} & (\mathrm{Hom}_{\mathbf{C}}(X;Y) \otimes \mathrm{Hom}_{\mathbf{C}}(Y;Z)) \otimes \mathrm{Hom}_{\mathbf{C}}(Z;U) \\
\downarrow{\scriptstyle \mathrm{id}_{\mathbf{C}} \otimes m_{Y,Z,U}} & & \downarrow{\scriptstyle m_{X,Y,Z} \otimes \mathrm{id}_{\mathbf{C}}} \\
\mathrm{Hom}_{\mathbf{C}}(X;Y) \otimes \mathrm{Hom}_{\mathbf{C}}(Y;U) \xrightarrow{m_{X,Y,U}} & \mathrm{Hom}_{\mathbf{C}}(X;U) & \xleftarrow{m_{X,Z,U}} \mathrm{Hom}_{\mathbf{C}}(X;Z) \otimes (\mathrm{Hom}_{\mathbf{C}}(Z;U)
\end{array}$$